

COMMONWEALTH of VIRGINIA

Department of Health DIVISION OF SHELLFISH SANITATION

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Rappahannock River: Wares Wharf to Tappahannock Bridge
Growing Area # 026A
Essex County
Shoreline Sanitary Survey

Date: 1 December 2006

Survey Period: August 23, 2006 – November 17, 2006

Total Number of Properties Surveyed: 986

Surveyed By: D.R. Beuchelt

SECTION A: GENERAL

This survey area begins at Reference Point 26 in Tappahannock, Virginia on Route 360 at the Downing Bridge and ends at Reference Point 27 at the Public Boat ramp located on Route 611, Wares Wharf Road. Included is the Rappahannock River shoreline and properties between the two reference points as well as Hoskins Creek and the Piscataway Creek and their tributaries. The Division of Shellfish Sanitation has drawn the designated boundary. The topography of the area surveyed begins with an elevation of 5' or less along the shoreline to a maximum of 150' near the western edge of the survey boundary.

According to VELMA (Virginia's Electronic Labor Market Access), the population of Essex County increased by 9.4% since 1994 and was estimated at 10, 330 in 2004. The total civilian labor force for Essex in July 2006 was 5,620 of which 5,402 were employed and 218 were unemployed leaving an unemployment rate of 3.9%. The total number of employees located in Essex County for 2005 was 4,049 with the largest major industry sector as Retail Trade at 22 percent of the employment, followed by Health Care and Social Assistance at 15 percent and Accommodation and Food services at 10 percent. Information about Essex County and the Tappahannock area can be found on the web at www.essex-virginia.org and www.tappahannock-va.gov. The Tappahannock-Essex Chamber of Commerce also publishes a directory with useful information about the area.

The town of Tappahannock is heavily traveled as it is the location of junctions Routes 17 and 360, both which serve as corridors to Richmond, Norfolk, Fredericksburg and Washington, D.C. The Rappahannock River is also a corridor for sea vessels which transport materials between the ports at Hampton Roads and Fredericksburg. Another mode of transportation is air travel. Currently, the area is served by the Tappahannock Municipal Airport which is located just outside the survey boundary line. A new airport located on Route 360 is currently under construction and is located in the drive-by area of the survey. This airport will be located North west of Mussel Swamp. The Chamber of Commerce directory states that 65% of the county is covered with forest land however subdivisions are under development in several areas. Areas once used as farmland are currently in the process of development.



During the survey period efforts to control phragmites were underway. Hoskins Creek and the Piscataway Creek have been especially targeted since they are heavily affected by this non-native grass which seems to be taking over the marshes. Two newspaper articles, one from the Richmond Times-Dispatch dated August 27, 2006 and one from the Rappahannock Times dated August 30, 2006, stressed the need to control the phragmites and offered an aerial herbicide application free to landowners. Sprayings were offered by helicopter as well as hand application.

Major renovations to homes in the area are underway due to the recent storms that have hit the area. The latest storm was Tropical Depression Ernesto on September 1, 2006. Waterfront homes located on the Rappahannock River received as much as 2 ½ to 3 feet of water inside the house. With storms as Hurricane Isabel (September 2003), and Tropical Depressions Gaston (August 2004) and Ernesto, some areas of Essex County have suffered extensive damage. Some homes are no longer standing, some are in the process of renovation, and others will be torn down as they have been destroyed beyond repair.

During this survey period, meteorological data indicated that 22.92"of precipitation was recorded. A monthly breakdown follows:

August 23-31	0.46"
September 1-30	11.78"
October 1-31	6.93"
November 1-17	<u>3.75</u> "
Total	22.92"

Found during this survey were 2 STF facilities, 17 on-site deficiencies, 15 properties marked as potential deficiencies, 4 industrial sites, 3 solid waste sites, 12 boating activity sites (five of which are public ramps), and 12 sites marked for animal pollution.

One of two Sewage Treatment facilities located in the area is the Tappahannock Wastewater plant. This plant currently holds a Class 3 License, but is in the process of upgrading to a Class 2 in the near future. The plant is served by 19 pump stations within the town limits. The wastewater pump stations, as well as the well water pump stations, have emergency generators that function even in extreme weather conditions. During Hurricane Isabel neither water or wastewater services were lost. Three mobile generators are available if needed. The facility is exceptional and well maintained. At the time of this survey a total of four wastewater plant operators holding Class 1 to Class 3 licenses are employed to cover the plant operations. The town operates a separate storm sewerage system as well. The second Sewage Treatment facility is a pair of sewage lagoons with a total capacity of 300,000 gallons and operated by the Essex Concrete Corporation.

Copies of Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. Copies of the current condemnation notices and maps are available via the Internet at http://www.vdh.virginia.gov/oehs/shellfish/.

This report lists only those properties that have a sanitary deficiency or have other environmental significance. "*DIRECT*" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Individual field forms with full information on properties listed in this report are on file in the Richmond office of the Division of Shellfish Sanitation and are available for reference until superseded by a subsequent survey of the area. Data in the report is also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

- DIRECT Tappahannock STP, 400 Mill Rd., Tappahannock 22560. Gayle G. Belfield, Jr. Town Manager, Town of Tappahannock, PO Box 266, Tappahannock, 22560. Facility No. VA0071471, Discharge No. 001. Facility is a Class 3 treatment plant with a maximum treatment capacity of 400,000 GPD. Ultraviolet (UV) units are used for disinfection.
- 60. Essex Concrete Corp., 1777 Howerton Rd., PO Box 127, Tappahannock 22560. This facility is located on Howertons Road. No contact. Treatment facility consists of two lagoons capable of holding a total of 300,000 gallons sewage.

ON-SITE DEFICIENCIES

- 10. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) Location: 159 Church Hill Rd., Tappahannock 22560. Dwelling 1 ½ story asbestos shingles being covered with blue vinyl siding. No contact. Kitchen/Laundry wastes are discharging onto ground surface. Sanitary Notice issued 9/11/06 to Field # 115.Tax Map # 36 71.
- 15. NO FACILITIES Location: 1398 Kino Rd., Tappahannock 22560. Dwelling 1 story green with brown shingles. 1 person. Privy was not accessible. Occupant states it is in bad condition. Sanitary Notice issued 9/18/06 to Field # 197. Tax Map # 35 69B.
- 23. CONTRIBUTES POLLUTION Location: 25242 Tidewater Trail, Tappahannock 22560. No Contact. House is not longer on the premises. Septic pipe has not been capped off. Sanitary Notice issued 10/161/06 to Field # 521. Tax Map # 45 25.
- 24. CONTRIBUTES POLLUTION Location: 157 Creek Road, Tappahannock 22560.

 Dwelling Mobile home, brown and cream colored siding. No Contact. Clean-out cap is missing. Sanitary Notice issued 10/18/06 to Field # 536. Tax Map # 37 87.
- 29. CONTRIBUTES POLLUTION Location: 111 Dixie Park Rd., Tappahannock 22560. Dwelling Mobile home, yellow and blue. No Contact. One of three clean-out ports is taped. Appears the septic tank is covered with plywood. Condition of tank unknown. Sanitary Notice issued 10/18/06 to Field # 554. Tax Map # 37 87.
- 30. CONTRIBUTES POLLUTION Location: 121 Dixie Park Rd., Tappahannock 22560. Vacant lot. No Contact. Septic pipe is uncapped. Sanitary Notice issued 10/18/06 to Field # 555. Tax Map # 37 87.
- 31. CONTRIBUTES POLLUTION Location: 133 Dixie Park Rd., Tappahannock 22560. Dwelling Mobile home, white with brown trim. No Contact. Clean-out cap is missing. Sanitary Notice issued 10/18/06 to Field # 556. Tax Map # 37 87.
- 32. CONTRIBUTES POLLUTION Location: 133 Dixie Park Rd., Tappahannock 22560. Vacant lot. No Contact. Clean-out port/septic line connection needs to be capped. Sanitary Notice issued 10/18/06 to Field # 559. Tax Map # 37 87.

- 34. CONTRIBUTES POLLUTION Location: 23952 Tidewater Trail, Tappahannock 22560. Dwelling White cinderblock with gray shingles and red shutters. No Contact. Water is pooling onto ground surface around septic system.
 - CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) Open pipe to ground surface from kitchen area. Sanitary Notice issued 10/19/06 to Field # 572. Tax Map # 37 70.
- 36. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) Location: 23390 Tidewater Trail, Tappahannock 22560. Dwelling 1 ½ story white with gray shingles and red shutters. No Contact. Lid on grease trap is cracked. Effluent has run onto ground surface. Sanitary Notice issued 10/20/06 to Field # 586. Tax Map # 37B 1 2.
- 43. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) Location: 2407 Harris Hill Rd., Tappahannock 22560. Dwelling 1 ½ story white with black shingles. Lid on grease trap is cracked. No Contact. Sanitary Notice issued 11/06/06 to Field # 804. Tax Map # 38 26.
- 50. CONTRIBUTES POLLUTION Location: Grandview Drive (adjacent to 3264 Grandview Drive, Tappahannock 22560. Dwelling cream-colored shed with brown shutters. No Contact. Wooden cover on what appears to be part of septic system. Condition of tank unknown. Sanitary Notice issued 11/14/06 to Field # 893. Tax Map # 38B 1 6B.
- 56. CONTRIBUTES POLLUTION Location: 2713 Wares Wharf Rd., Tappahannock 22560. Dwelling 1 story white with light gray shingles. No Contact. Wooden cover on what appears to be part of septic system. Condition of tank unknown. Sanitary Notice issued 11/17/06 to Field # 976. Tax Map # unknown.
- 57. CONTRIBUTES POLLUTION Location: 2741 Wares Wharf Rd., Tappahannock 22560. Dwelling 1 story white with green shutters. No Contact. Plywood covering on what appears to be part of septic system. Condition of tank unknown. Sanitary Notice issued 11/17/06 to Field # 977. Tax Map # unknown.
- 58. CONTRIBUTES POLLUTION Location: 2781 Wares Wharf Rd., Tappahannock 22560. Dwelling 2 ½ story white with gray shingles. No Contact. 2 ½ inch black hose exits out the side of the house onto the ground surface. Area partially covered with bricks. Sanitary Notice issued 11/17/06 to Field # 976. Tax Map # 47 8.

POTENTIAL POLLUTION

- 7. Location: 2684 De Sha Rd., Tappahannock 22560. Dwelling 1 story white cinderblock with red trim. 2 persons. Wooden type privy located close to a ravine. No problems detected, however, excessive rains could cause undermining.
- 9. Location: On Alvin Drive, (911# unknown), Tappahannock 22560. Dwelling variegated gray color mobile home. No Contact. Area over absorption field shows dark grass. No sign of malfunction.
- 14. Location: 1614 Kino Rd., Tappahannock 22560. Dwelling 1 story white with gray shingles. 2 persons. Owner states in wet weather the system is "sluggish". No sign of malfunction at time of survey.

- 25. Location: 249 Creek Rd., Tappahannock 22560. Dwelling tan-colored mobile home. A trench has been dug near the septic line to relieve excess water. Source of the water is unknown, but may be wastewater. Sanitary Notice issued 11/18/06 to Field #544. Tax Map #37 87.
- 26. Location: 186 Creek Rd., Tappahannock 22560. Dwelling mobile home white with brown trim. No Contact. Vacant. No electric. No access steps. No hook-up to septic. Appears the mobile home may have just been moved to this location (Dixie Trailer Park).
- 27. Location: 172 Creek Rd., Tappahannock 22560. Dwelling mobile home variegated blue and white with blue and white trim. 7 persons. Owner states about a year ago pressure on the septic line burst line under the house. No malfunction at time of survey.
- 28. Location: 128 Creek Rd., Tappahannock 22560. Dwelling mobile home brown with white trim. 4 persons. Owner states about a month ago she experienced a broken sewer pipe under the house. Pipe has been fixed. No signs of malfunction.
- 33. Location: 217 Dixie Park Rd., Tappahannock 22560. Dwelling mobile home faded blue and gray with blue/gray shutters. 1 person. Owner states the septic system works slow in real wet weather. No signs of malfunction at time of survey.
- 35. Location: 23954 Tidewater Trail, Tappahannock 22560. Dwelling mobile home tan with brown trim. No Contact. Yard is soggy. No sign of odor or effluent.
- 37. Location: 1566 Gordons Mill Rd., Tappahannock 22560. Dwelling 1½ yellow and white cinderblock with green trim and gray shingles. (Old thrift shop.) No Contact. Area in yard covered with a steel plate and wooden pallet. Appears to be a support over septic area. No signs of odor or malfunction.
- 39. Location: 151 Deep Landing Rd. Tappahannock 22560. Dwelling 1 story tan with white trim, tan shingles and dark brown shutters. No Contact. Area over absorption field shows dark grass. No signs of malfunction.
- 45. Location: On Grandview Drive, (991# unknown), Dunnsville 22454. Dwelling 2½ story light brown with white trim and green metal roof. No Contact. In rear of house is a 4" PVC pipe capped. Unknown origin.
- 47. Location: 3522 Grandview Drive, Dunnsville 22454. Dwelling 2 ½ story yellow with white trim and black shingles on raised foundation. No Contact. In rear of shed was a 1". No signs of discharge. Origin unknown.
- 49. Location: 3264 Grandview Drive, Dunnsville 22454. Dwelling 2 story gray with balcony. No Contact. Pipe in driveway is broken (uncapped). Origin unknown but appears to be part of storm drain.
- 52. Location: 437 Riverplace, Dunnsville 22454. Dwelling 1½ story white with red metal roof. No Contact. 1" PVC pipe under house. Origin unknown. No signs of discharge.

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTES

- 6. Location: 2063 Mt. Landing Rd., Tappahannock 22560. Owner: Parr Construction, Inc., PO Box 772, Tappahannock 22560. Located on premises were 2 x 500 gallon unleaded fuel tanks and 2 x 500 gallon diesel tanks within a berm.
- 21. Location: 16167 Tappahannock Blvd., Tappahannock 22560. Owner: Southern States Cooperative, Inc., Manager-Don Ray. Located on premises were 1 x 250 gallon used oil tank and 2 x 500 gallon diesel fuel tanks within a berm.
- 44. Location: 3189 Grandview Drive, Dunnsville 22454. Owner: James Haile. Located on premises were 2 x 10,000 gallon diesel fuel tanks, and 1 x 1000 gallon gasoline fuel tank without berm.
- 62. Location: 661 Richmond Highway, Tappahannock 22560. Owner: Tidewater Lumber Corp., 19957 Tidewater Trail, Tappahannock 22560. Located on premises was 1 x 10,000 gallon off-road diesel fuel tank within a berm.

SOLID WASTE DUMPSITES

- 8. Location: 2164 De Sha Rd., Tappahannock 22560. Young's Garage. Owner: Wayne Young. Business Auto parts, repair shop, junk yard. 1 person. 1½ acre of old cars and auto parts.
- 17. Location: 531 Lagrange Industrial Drive, Tappahannock 22560. Va. Parts Supply. Owner: David Stokes. 4 persons. Business Salvage scrap metals, old parts, batteries.
- 22. Bray's Fork Convenience Center. c/o Essex County Administrator, PO Box 1079, Tappahannock 22560. 2 employees. Public waste collection and recycling center. Observed on-site were 1 compacter, 1 small barrel for used oil, 1 small barrel for used antifreeze, 13 dumpsters for recycling materials, and 1 port-a-john serviced by Church View Septic Service, Inc.

SECTION D: BOATING ACTIVITY

MARINAS

-None-

OTHER PLACES WHERE BOATS ARE MOORED

- 1. Riverside Condominiums, 128 Prince Street, Tappahannock 22560. Owner: Riverside Council of Co-owners, Rt. 1, Riverside Box # 4, Tappahannock 22560. Available on-site are 14 slips, ramp, restroom facilities and solid waste containers. Facility No. 184.
- 3. Southside Motel Marina, 914 S. Church Lane, Tappahannock 22560. Owner: Vacation Paradise Inc., PO Box 28, Tappahannock 22560. Available on-site are 8 slips, electricity, water, restroom facilities, and solid waste containers. Facility No. 186.

19. Location: Riverdale Rd., Tappahannock 22560. Community boathouse and services for Riverdale residents. Available on-site are 12 slips, (7 boats present-16 ft. and larger in size), ramp, electricity, and water.

UNDER SURVEILLANCE

- 2. The Haven Marina, 230 Jeannette Dr., Tappahannock 22560. Owner: Howard Reisinger. No Contact. Available on-site are 5 slips, ramp, water, and restroom facilities at a private house. Facility No. 187.
- 4. Hoskins Creek Landing, end of Dock Street (Route 1002). Owner: Commonwealth of Virginia. Available on-site are an in-out ramp and a solid waste container.
- 18. Rappahannock River Cruises, 1140 Tappahannock Blvd., Tappahannock 22560.

 Owner: Tangier and Rappahannock LLC. Available on-site is 1 mooring for a tour boat, electricity, water, with restrooms on board. Sewage is emptied at Pump Station #5 and treated at the Tappahannock STF. Facility No. 180.
- 20. Location: 514 Piscataway Drive, Tappahannock 22560. Owner: Coldcheer Farm Estates Homeowners Association, c/o Cindee Linthicum, PO Box 1544, Tappahannock 22560. Available on-site are ramp, loading/unloading dock, Port-a-john serviced by W. C. Lowery, Inc., and solid waste containers.
- 40. Location: Route 726 Deep Landing Rd., Tappahannock 22560. Load/unload dock only with in-out ramp for use by residents.
- 42. Location: Route 663 Ferry Landing Rd., Tappahannock 22560. Owner: Commonwealth of Virginia. Available on-site are an in-out ramp.
- 46. Location: Route 616 Grandview Dr., Dunnsville 22454. Owner: Grandview Pier Corp. c/o A. R. Riles, 247 Mayfly Dr., Dunnsville 22454. Available are a series of docks for residents of Grandview Dr., ramp, loading/unloading dock, and solid waste cans. Present at time of survey was 1 boat less than 18' in size.
- 48. Location: Route 616 Grandview Dr., Dunnsville 22454. Owner: Nancy Parsley. No Contact. Available on-site is an in-out ramp which appears to be for use by the residents of Grandview Dr.
- 59. Location: end of Route 611 Wares Wharf Rd., Dunnsville 22454. Owner: County of Essex, c/o Essex County Administrator, PO Box 1079, Tappahannock 22560. Available on-site is an in/out ramp.

SECTION E: CONTRIBUTES ANIMAL POLLUTION

11. Location: De Sha Rd., Tappahannock 22560. Dog Kennels located back in woods. No Contact. Present at time of survey were 10 hunting dogs and seven puppies. Kennels appear well maintained.

- 12. Location: 391 Carver Rd., Tappahannock 22560. Dwelling 1 story white with black shutters and black trim. No Contact. Present at time of survey were 4 horses in pasture. Manure is left on ground surface.
- 13. Location: 2316 Kino Rd., Tappahannock 22560. Dwelling 1 story white cinder block. No Contact. Present at time of survey were 35-40 hunting dogs. Manure is left on ground surface.
- 14. Location: 1614 Kino Rd., Tappahannock 22560. Dwelling 1 story white with gray shingles. 2 persons. Present at time of survey were 21 Fox hounds and 2 Jack Russell Terriers. Manure is left on ground surface.
- 16. Location: 1164 Kino Rd., Tappahannock 22560. Dwelling 2 ½ story brick with green shutters and gray shingles. 2 persons. Present at time of survey were 9 horses. Pastures are well maintained.
- 38. Location: 524 Bell Ln., Tappahannock 22560. Dwelling 1 story white with flat roof. 2 persons. Present at time of survey were 3 peacocks, 30-50 chickens. All roam free. Manure is left on ground surface.
- 41. Location: 150 Deep Landing Rd., Tappahannock 22560. Dwelling 2 story wood siding with metal roof. 4 persons. Present at time of survey were 5 horses in pasture. Manure is left on ground surface.
- 44. Location: 3189 Grandview Dr., Dunnsville 22454. Dwelling 1 ½ story brick with beige trim and brown shutters. 2 persons. Present at time of survey were approximately 30 hunting dogs in dog kennels. Kennels are maintained.
- 51. **DIRECT** Location: 235 Riverplace, Dunnsville 22454. Dwelling 1 story with light siding and light gray shingles. 2 persons. Present at time of survey were approximately 4 dogs. Wastes are on ground surface. Heavy rains had occurred. Wastes and rainwater were flowing into a ditch that empties into the Rappahannock River < 500 feet away from the dog pen.
- 53. **DIRECT** Location: 2708 Riverstretch, Dunnsville 22454. Dwelling 1 story white with black shutters. No Contact. Present at time of survey were approximately 15 hunting dogs. Manure is left on ground surface. Unable to access the rear of the property, however, it was noted in the 1999 survey that the cows had direct access to Mussel Swamp.
- 55. Location: 784 Sunnyside Ln., Dunnsville 22454. Dwelling 1 ½ story brick with red shutters and black shingles. 5 persons. Present at time of survey were 2 horses, small flock of chickens, and 4 dogs. Manure was found on ground surface, but the property is maintained well.
- 61. Location: 362 Mussel Swamp Rd., Tappahannock 22560. Dwelling 2 story beige with black shutters and light gray shingles. No Contact. Present at time of survey were 20-30 sheep, 10-15 chickens, an unknown number of cows, cats and dogs.

SUMMARY

Area # 026

Rappahannock River: Wares Wharf to Tappahannock Bridge

1 December 2006

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 1 DIRECT # 5
 - <u>1</u> INDIRECT # 60
 - 2 B.1.TOTAL
- **2. ON-SITE SEWAGE DEFICIENCIES** Correction of deficiencies in this section is the responsibility of the local health department.
 - 0 CONTRIBUTES POLLUTION, DIRECT None
 - 12 CONTRIBUTES POLLUTION, INDIRECT # 23, 24, 29, 30, 31, 32, 34, 36, 50, 54, 56, 57
 - 0 CP (Kitchen or Laundry Wastes), DIRECT None
 - 4 CP (Kitchen or Laundry Wastes), INDIRECT # 10, 34, 43, 58
 - 0 NO FACILITIES, DIRECT None
 - 1 NO FACILITIES, INDIRECT # 15
 - 17 B.2. TOTAL

3. POTENTIAL POLLUTION

Periodic surveillance of these properties will be maintained to determine any status change.

15 – POTENTIAL POLLUTION – # 7, 9, 14, 25, 26, 27, 28, 33, 35, 37, 39, 45, 47, 49, 52

SECTION C: NON-SEWAGE WASTE SITES

- 1. INDUSTRIAL WASTE SITES
 - 0 DIRECT None
 - <u>4</u> INDIRECT # 6, 21, 44, 62
 - 4 C.1. TOTAL
- 2. SOLID WASTE SITES
 - 0 DIRECT None
 - 3 INDIRECT # 8, 17, 22
 - 3 C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 0 MARINAS None
- 3 OTHER PLACES WHERE BOATS ARE MOORED # 1, 3, 19
- 9 UNDER SURVEILLANCE # 2, 4, 18, 20, 40, 42, 46, 48, 59
- 12 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 2 DIRECT # 51, 61
- 10 INDIRECT # 11, 12, 13, 14, 16, 38, 41, 44, 53, 55
- 12 E. TOTAL